1924

EXPERIMENT STATION PROJECTS OF APPLICATION TO HOME ECONOMICS

This list of State experiment station projects relating to various phases of home economics research, including (1) food and nutrition, (2) clothing and textiles, (3) economic and social, and (4) household equipment, has been compiled from the 1924 reports of the station directors to the Office of Experiment Stations. It does not include projects completed at the time of these reports or begun later, nor projects under investigation in the home economics departments of the land-grant colleges carried on independently of the stations.

Station	Station department conducting the research	Phase of home economics concerned	Title of project
Alabama	Animal Industry	Food and nutrition	The vitamin content of certain nuts.
	Agricultural Engineering	Household equipment	Requirement for farm refrigeration outfits.
			Temperature and impact requirements of dish washing machines.
Arkansas	Agricultural Chemistry	Food and nutrition	Dietary requirements for reproduction.
			Cause of inadequacy of milk proteins for reproduction.
			Iron content of certain foods.
California	Dairy Industry and Fruit Products	Food and nutrition	Fruit in ice cream.
	Nutrition	Food and nutrition	Study of California foods and food products with respect to content of vitamin C.
	Pomology	Food and nutrition	Storage of fruits at low temperatures for preserving, canning, and soda fountain use.
	Rural Institutions	Economic and social	Study of economic and farming conditions in irrigated districts.
	Viticulture and Fruit Products	Food and nutrition	Glacé fruit; miscellaneous fruit juices; grape sirup; packing dried fruit; moisture loss in dried fruit; preparation of merchantable products from surplus fruits; use of fruits in ice cream.
Colorado	Bacteriology	Food and nutrition	Heat-resisting bacteria in fresh and canned vegetables.
	Economics	Economic and social	Rural life studies.
	Home Economics	Food and nutrition	Cooking quality of Colorado potatoes.
			Bread-making qualities of Colorado flour.

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Connecticut (State)	Analytical Chemistry	Food and nutrition	Analyses of diabetic foods.
	Biochemistry	Food and nutrition	Protein research and nutrition studies: (1) Proteins of green plants. (2) Relation of chemical constitution of diet to the development of rickets. (3) Studies of the relation of vitamins to nutrition. (4) Part played by proteins, carbohydrates and fats in nutrition. (5) Effect on the eye of deficiency in fat-soluble vitamins. (6) Effect of diet on fertility. (7) Relation of chemical structure of the proteins to their nutritive value.
Connecticut (Storrs)	Agricultural Economics	Economic and social	Intensive economic studies in selected towns.
Delaware	Chemistry	Food and nutrition	Study of factors affecting jellying of fruits.
Idaho	Agricultural Chemistry	Food and nutrition	Iodine-content of Idaho-grown foods in relation to prevalence of goiter.
	Agricultural Engineering	Household equipment	Design and installation of farm water systems.
Illinois	Animal Husbandry	Food and nutrition	The nutritive value of the proteins of feeding stuffs and the biological values of the proteins.
	Animal Husbandry	Food and nutrition	The relation of light to nutrition (Indirectly applicable).
	Dairy Husbandry	Food and nutrition	Study of the preparation of fermented milk drinks and their value from a dietary and medicinal standpoint.

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Indiana	Dairy	Food and nutrition	The manufacture, chemistry, and bacteriological study of ice cream.
			Study of the growth and development of suitable rats fed with and without dairy products.
	Home Economics	Food and nutrition and Household equipment	Studies in fuel consumption in the preparation of meals by the use of certain types of cookers.
Iowa	Agricultural Economics and Farm Management	Economic and social	Farm organization studies.
	Animal husbandry	Food and nutrition	Meat investigations.
	Chemistry and Pomology	Food and nutrition	Chemical changes in the ripening and storage of apples.
	Dairy	Food and nutrition	Factors influencing the yield and consistency of ice cream.
	Rural Sociology	Economic and social	Farm cost of living and standard of living studies.
			Studies of villages and open country relationships.
Kansas	Chemistry	Food and nutrition	Studies of the chemical aspects of certain milling processes.
	Milling Industry	Food and nutrition	Chemical and milling tests on wheat produced in various agronomic experiments and comparative chemical and milling behavior of Kanred and other wheat varieties.
	Dairy Husbandry and Bacteriology	Food and nutrition	Bacterial, mechanical, and temperature factors in the manufacture and storage of ice cream.
Kentucky	Chemistry	Food and nutrition	To determine if manganese is an essential element in animal metabolism, with particular reference to vitamins.
	Chemistry	Food and nutrition	To determine if manganese, copper, and zinc are essential factors in reproduction and metabolism.
	Economics	Economic and social	Investigation of cooperative marketing and purchasing among farmers of Kentucky.
			The Farmers' standards of living.

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Michigan	Agricultural Engineering	Household equipment	Use of electricity on the farm.
	Bacteriology	Food and nutrition	Microbiology of food of man and domestic animals.
	Bacteriology	Clothing and textiles	Flax retting.
	Chemistry	Food and nutrition	Analyses of Michigan wheat and flour.
Minnesota	Agricultural Biochemistry	Food and nutrition	Cereal and flour investigations (transferred to flour mill).
			Strength of wheat flour.
			Chemical and biological studies in animal nutrition.
			(1) Factors influencing the vitamin content of milk.
			(2) Factors influencing the stability of vitamins in human and animal foods.
			(3) Studies on the chemical nature of vitamins A and B.
			(4) Studies on the quantitative requirements of laboratory animals for vitamins.
			(5) Studies regarding the function of vitamins in the animal body.
			Chemistry of the formation and manufacture of dairy products and factors influencing milk production and the composition and properties of milk.
	Agricultural Economics	Economic and social	The organization of farmers' supply service.
	Agricultural Engineering	Household equipment	Investigations of farm buildings.
			Heating and ventilating of homes.
			Utilization of electricity.

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Missouri	Agricultural Chemistry	Food and nutrition	Protein storage in protoplasmic tissue.
	Animal Husbandry	Food and nutrition	Relation of diet to bodily activity and the capacity to withstand unfavorable circumstances.
	Dairy Husbandry	Food and nutrition	The effect of each ingredient on the manufacture of ice cream.
	Home Economics	Food and nutrition	Psychology of child nutrition.
			Thrice cooked vegetables for diabetics.
			A nutrition problem with special reference to negro children.
			The effect of external temperature upon basal metabolism under usual conditions of dress.
			Selection and economic use of soap in the home.
	Home Economics	Clothing and textiles	Color knowledge essential to costume and its practical application.
	Rural Life	Economic and social	Analyses of the Columbia trade area showing the influence of various economic factors on shape and size of the trade area.
			Standard of living on the farm as factor in cost of production.
			Movements of rural population in Missouri.
			A study of the rural primary groups of Boone Co.
Montana	Agronomy	Food and nutrition	Composition and quality of Montana wheats.
			Influence of climate upon baking quality of hard wheats.
	Agronomy and Chemistry	Food and nutrition	Changes in wheat when frosted and their effect on baking quality.
Nebraska	Dairy	Food and nutrition	Studies of the principles of ice cream making.
	Chemistry	Food and nutrition	Relation of certain chemical and physical chemical characteristics of Nebraska wheat to its milling and baking quality.
	Dairy	Food and nutrition	Studies of fat-soluble A as present in milk of four dairy breeds.

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New York (Cornell)	Home Economics	Food and nutrition	An experimental study of the effect of various methods of canning carrots on their antiscorbutic properties.
			Experiments in feeding rats, using potatoes as basis of diet.
			Differences in antiscorbutic properties of yellow compared with red tomatoes.
			Differences in vitamin A content of yellow and green beans.
			Studies on the keeping qualities of certain foods in household refrigerators.
	Rural Education	Economic and social	Problems of rural school attendance.
			Guidance resources of rural communities.
			Community activities in relation to teaching.
	Rural Social Organization	Economic and social	Village population and service agencies.
			Study of rural social organizations.
			Influence of sickness and death on the economic and social status of the family.
New York (State)	Dairying	Food and nutrition	Investigations in the manufacture of ice cream.
	Bacteriology	Food and nutrition	Tomato products investigation (cause of gaseous fermentation).
North Dakota	Milling	Food and nutrition	Effect of variety, soil, climatic conditions, and disease upon milling and bread value and chemical composition of wheat.
			Effect of storage on milling and baking quality and chemical composition of wheat.
			Durum wheat investigations.

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Oklahoma	Not stated	Economic and social	General economic and social investigations.
Oregon	Agricultural Chemistry	Food and nutrition	Specific rôle of the inorganic elements, potassium in particular.
	Horticulture	Food and nutrition	Dehydration of fruits and vegetables.
			Canning of Oregon-grown apples.
Pennsylvania	Chemistry	Food and nutrition	Influence of commercial condensing processes on vitamin content of cow's milk.
	Agricultural Economics	Economic and social	Marketing survey of food products in various counties in Pennsylvania.
South Dakota	Dairy	Food and nutrition	Influence of corn silage on the vitamin C potency of milk.
Texas	Animal Industry	Clothing and textiles	Determining the grades and shrinkages of Texas wool and mohair.
	Farm and Ranch Economics	Economic and social	Survey and analysis of rural church conditions.
Utah	Human Nutrition	Food and nutrition	Nutrition of infants. Relationship of breed and individuality of cows to curd characteristic of milk.
	Bacteriology and Chemistry	Food and nutrition	Changes in flour on storage.
Vermont	Animal husbandry	Food and nutrition	Nutritive value of milk, its suitability for food for children and animals, conditions which affect its nutritive value, tolerance, and related questions.
			Work with small animals on protein and maintenance needs.
	Dairy Husbandry	Food and nutrition	Acidity of ice cream mix.

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Virginia	Dairy Husbandry	Food and nutrition	Comparison of food value of milk of different grades.
	Agricultural Economics	Economic and social	Production, distribution, and marketing studies of food products for Roanoke City.
Washington	Chemistry	Food and nutrition	Nutritive value of wheat and wheat products.
West Virginia	Agricultural Economics	Economic and social	Supply method of marketing and consumption of food in West Virginia cities and agricultural production in nearby territory.
Wisconsin	Agricultural Bacteriology	Food and nutrition	Factors concerned in coagulation of milk by heat.
	Agricultural Biochemistry	Food and nutrition	The effect of organic nutrients from single vs. mixed plant sources on the growth and reproduction of animals.
			Studies of the factors necessary in the maintenance of mammals, as vitamins, light, etc.
			Sources of vitamins in feed; the relation of pigments to animal nutrition; the stability of vitamins and their relation to growth and reproduction.
	Agricultural Economics	Economic and social	Country life investigations: (1) A study of towns and villages as social and economic service stations. (2) A detailed study of seven Wisconsin small towns. (3) Rural religious organizations.
	Agricultural Engineering	Household equipment	Availability of electric power on the farm.
Wyoming	Wool	Textiles and clothing	Studies of fleece and wool characters.